



FIG 1

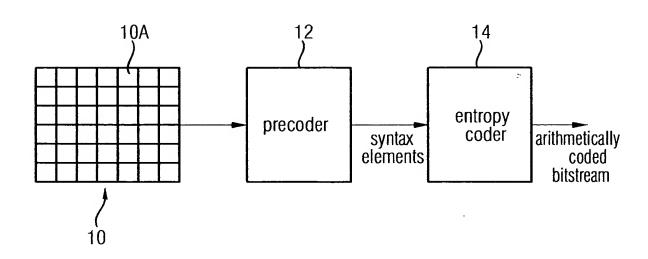


FIG 10

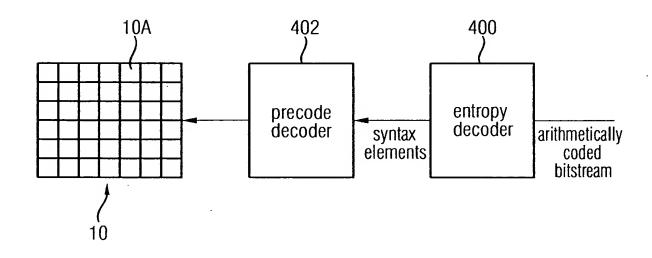


FIG 4A

pixel row nur	nber			<u>10E</u>	<u>3</u> ~			250 X 1	X 2	X 3	X 4	X 5	X 6	•••
2n+1	X 1	X 2	X 3	X 4	X 5	X 6		11 X	12 X	13 X	14 X	15 X	16	
2n+2	11	□ 12	□ 13	□ 14	□ 15	□ 16	254	<u>21</u>	22	23	24	25	X 26 □	
2n+3	X 21	X 22	X 23	X 24	X 25	X 26	157	31	32	33	34	35	□ 36	
2n+4	31	32	□ 33	34	□ 35	36		•	•	•	•	'	ı	•••
2n+5	X 41	X 42	X 43	X 44	X 45	X 46		<u>252</u>					. •	
2n+6	□ 51	□ 52	□ 53	□ 54	□ 55	□ 56			□ 62	□ 63	□ 64			•••
:	•						•••	61 X 71	X 72	X 73	X 74	65 X 75	66 X 76	
2n+10	□ 91	□ 92	□ 93	94	□ 95	□ 96		81	□ 82	□ 83	□ 84	□ 85	□ 86	
2n+11	X 101	X 102	X 103	X 104	X 105	X 106	•••	:						•••
2n+12	111				115			ě						•

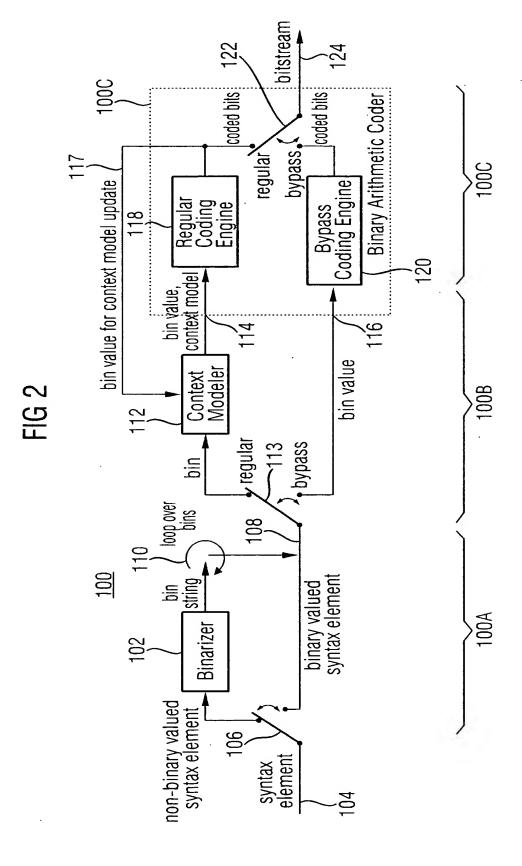
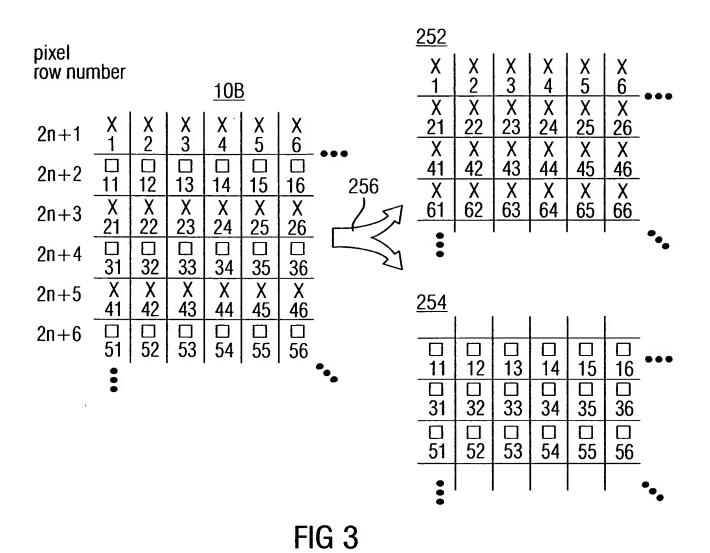


FIG 4B



202 0 2 4 ... | 2i-2 1 3 ... | 2i-1 2i 2i+2 | -10A | -200A | -200b | 200 10B A macroblock pair

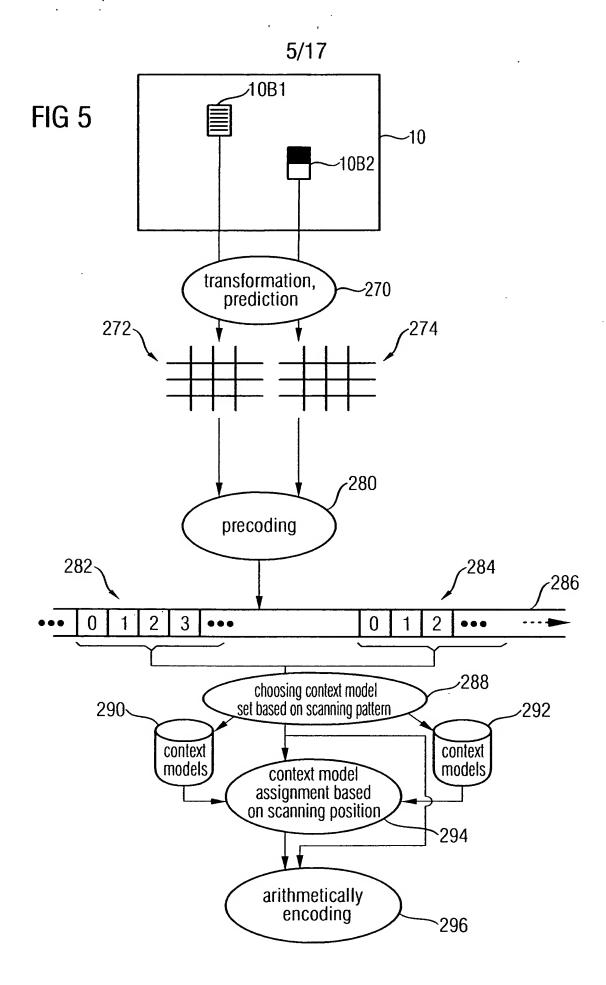


FIG 6

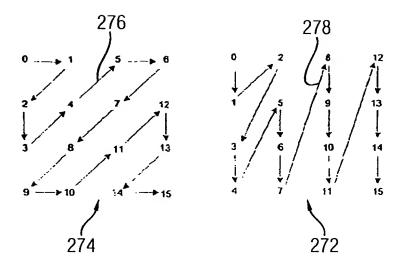


FIG 7

Scanning position	0	1	2	3	4	5	6	7	8
Transf. coefficient levels	9	.0	-5	3	0	0	-1	0	1
significant_coeff_flag	1	0	1	1	0	0	1	0	1
last_significant_coeff_flag	0		0	0			0		1

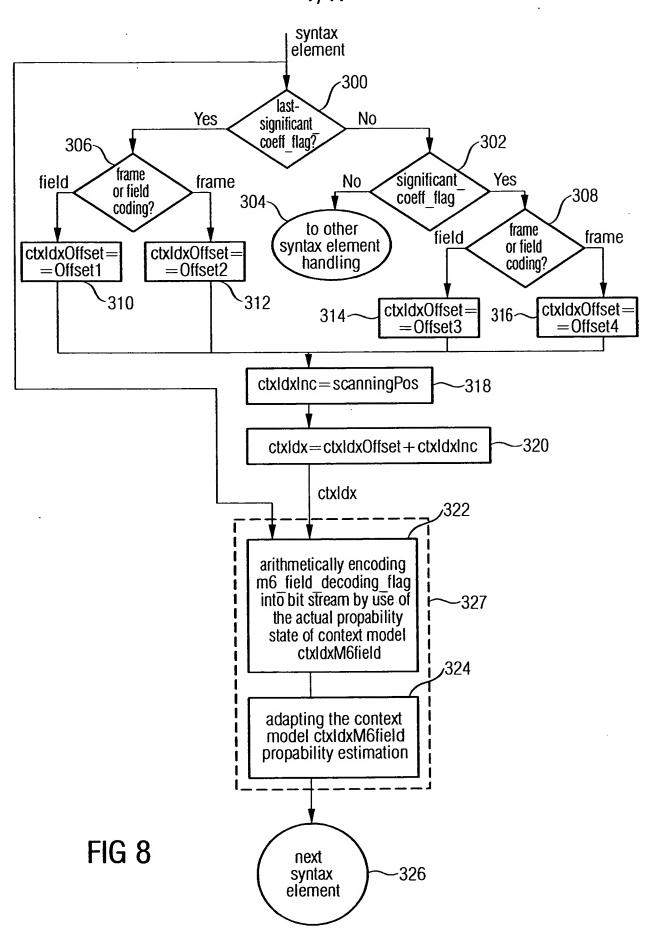


FIG 9

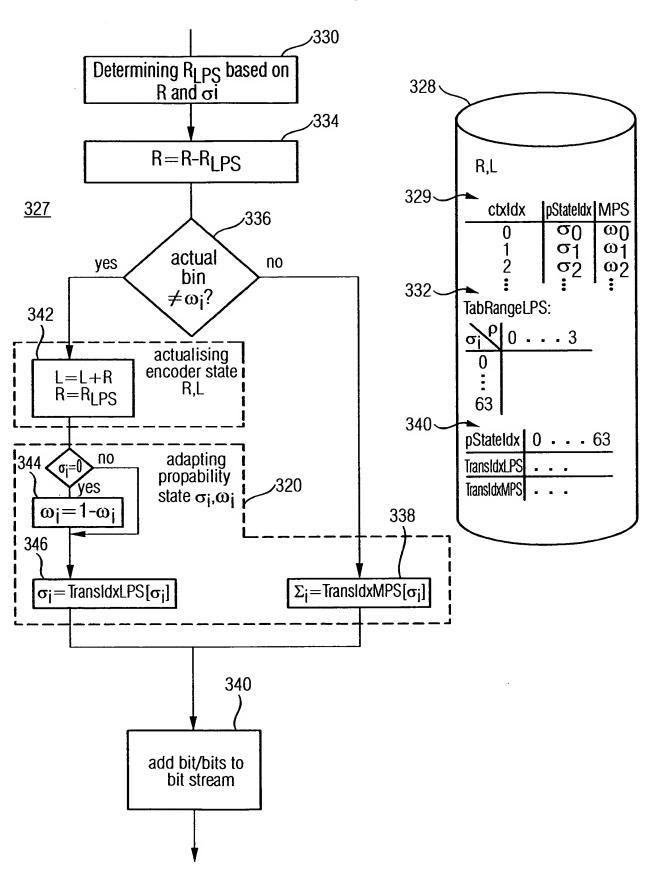


FIG 11

```
residual_block_cabac(coeffLevel, maxNumCoeff) {
1
2
3
        coded block flag
        if( coded_block_flag ) {
          numCoeff = maxNumCoeff
4
5
          i = 0
          do {
6
             significant_coeff_flag[i]
7
             if(significant coeff flag[i]) {
8
                last significant coeff flag[i]
9
               if(last_significant_coeff_flag[i]) {
10
                  numCoeff = i + 1
11
                  for(j = numCoeff; j < maxNumCoeff; j++)
12
                    coeffLevel[j]=0
13
14
15
             i++
16
           } while( i < numCoeff-1 )
17
           coeff_abs_level_minus1[ numCoeff-1 ]
18
           coeff_sign_flag[numCoeff-1]
19
          coeffLevel[ numCoeff-1 ] = ( coeff_abs_level_minus1[numCoeff-1]+1 )
20
                                       (1-2 * coeff sign_flag[numCoeff-1])
21
           for(i = numCoeff-2; i >= 0; i-) {
22
             if(significant coeff flag[i]) {
23
                coeff abs level minus1[i]
                coeff sign flag[i]
24
                coeffLevel[i] = (coeff abs level minusl[i]+1)*
25
                                  (1-2 * coeff sign flag[i])
26
             } clse
27
                coeffLevel[i]=0
28
           }
29
        } clse
30
           for(i = 0; i < maxNumCoeff; i + +)
31
             coeffLevel[i] = 0
32
```



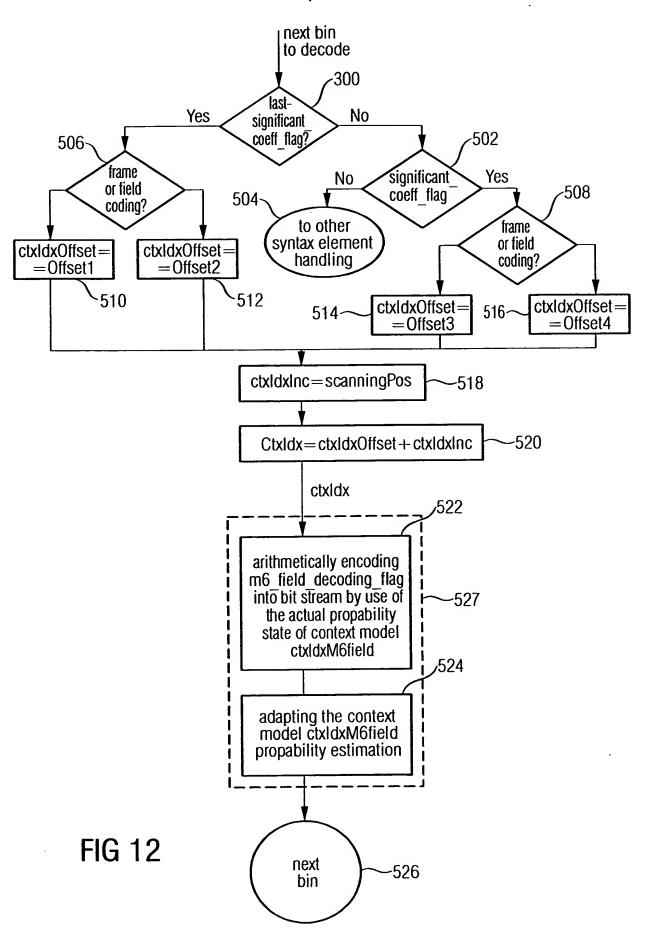
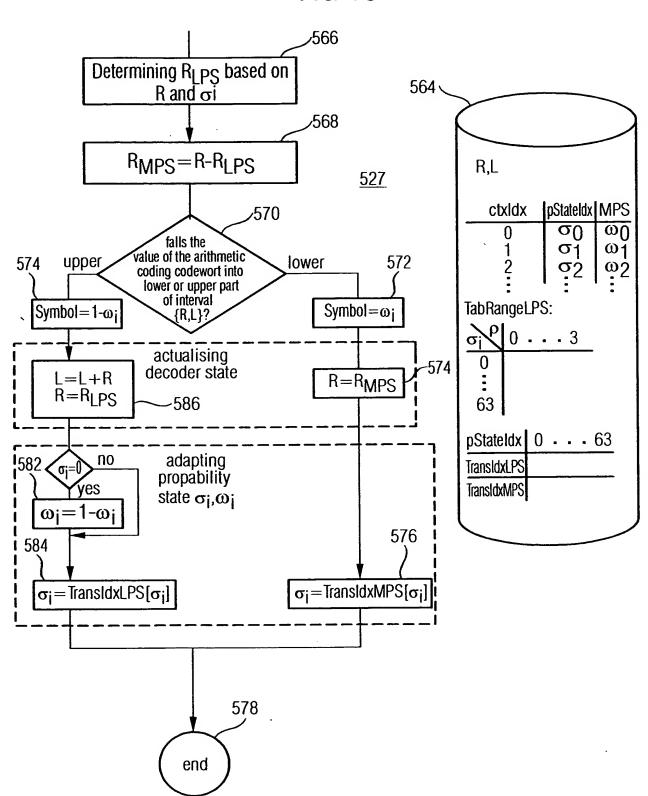


FIG 13



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FIG 14

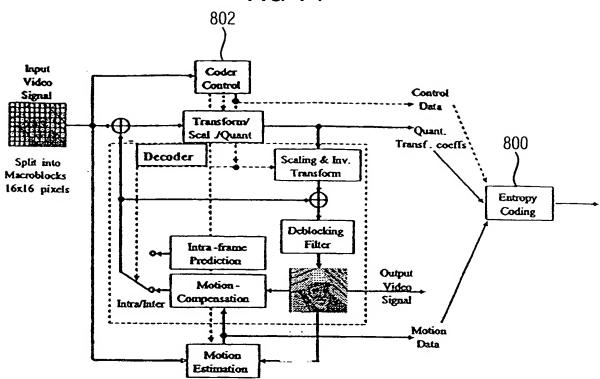
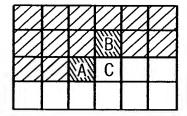


FIG 17

FIG 15



QABCDEFGH Iabcd Jefgh Kijkl Lmnop

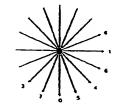
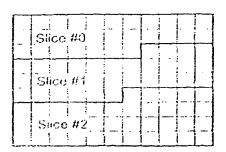


FIG 16



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		ıd SI		Value	of cal	mc_ini	t_idc			I an	d SI		Valo	e of ca	bac_f	nit_ide	:	
ctzldz	sti	slices		0		1		2	ctxIdx	s t	ces	0		1			2	
	æ	n	6 51	•	m	n	s n	a		m	а	E	•	m	а	Q1	n	
105	-7	93	-2	85	-13	103	4	86	136	-13	101	5	53	0	58	-5	75	
106	-11	87	-6	78	-13	91	-12	88	137	-13	91	-2	61	-1	60	-8	80	
107	-3	77	-1	75	-9	89	-5	82	138	-12	94	0	56	-3	61	-21	83	
108	-5	71	-7	77	-14	92	-3	n	139	-10	88	0	56	-8	67	-21	64	
109	4	63	2	54	-8	76	4	67	140	-16	84	-13	63	-25	84	-13	31	
110	-4	68	5	50	-12	87	-8	72	141	-10	86	-5	60	-14	74	-25	64	
111	-12	84	-3	68	-23	110	-16	89	142	-7	83	-1	62	-5	65	-29	94	
112	-7	62	1	50	-24	105	-9	69	143	-13	87	4	57	5	52	9	75	
113	-7	65	6	42	-10	78	-l	59	144	-19	94	-6	69	2	57	17	63	
114	8	61	4	18	-20	112	5	66	145	Ł	70	4	57	0	61	-8	74	
115	5	56	1	63	-17	99	4	57	146	0	72	14	39	-9	69	-5	35	
116	-2	66	4	70	-78	127	4	71	147	-5	74	4	51	-11	70	-2	27	
117	1	64	0	67	-70	127	-2	71	148	18	59	13	68	18	55	13	91	
118	0	61	2	57	-50	127	2	58	149	-8	102	3	64	4	71	3	65	
119	-2	78	-2	76	-46	127	-1	74	150	-15	100	1	61	0	58	-7	69	
120	1	50	1.1	35	4	66	4	44	151	0	95	9	63	7	61	8	77	
121	7	52	4	64	-5	78	-1	69	152	4	75	7	50	9	41	-10	66	
122	10	35	i	61	-4	71	0	62	153	2	72	16	39	18	25	3	62	
123	0	44	11	35	-8	72	-7	51	154	-11	75	5	44	9	32	-3	68	
124	11	38	18	25	2	59	4	47	155	-3	71	4	52	5	43	-20	81	
125	1	45	12	24	-1	55	-6	42	156	15	46	13	48	9	47	0	30	
126	0	46	13	29	-7	70	-3	41	157	-13	69	-5	60	0	44	ı	7	
127	5	44	13	36	-6	75	-6	53	158	0	62	-1	59	0	SI	-3	23	
128	31	17	-10	93	-8	89	8	76	159	0	65	0	59	2	46	-21	74	
129	1	51	-7	73	-34	119	-9	78	160	21	37	22	33	19	38	16	66	
130	7	50	-2	73	-3	75	-11	83	161	-15	72	5	44	4	66	-23	124	
131	28	19	13	46	32	20	9	52	162	9	57	14	43	15	38	17	37	
132	16	33	9	49	30	22	0	67	163	16	54	-l	78	12	42	44	-18	
133	14	62	-7	100	-44	127	-5	90	164	0	62	0	60	9	34	50	-34	
134	-13	108	9	53	0	54	1	67	165	12	72	9	69	0	89	-22	127	
135	-15	100	2	53	-5	61	-15	72										

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FIG 18B

		d St		Valu	e of cal	bac_in	tt_idc			-	d SI		Valu	e of ca	bac_in	it_idc	
ctrildx	3-0			,				2	ctxldx	di	Ces		0		I .	1	2
	E	a	200	а	Ħ	n	m	n		m	a	m a	п		a	æ	0
166	24	0	11	28	4	45	4	39	197	26	-17	28	3	36	-28	28	-3
167	15	9	2	40	10	28	0	42	198	30	-25	28	4	38	-28	24	10
168	8	25	3	44	10	31	7	34	199	28	-20	32	0	38	-27	27	0
169	13	18	0	49	33	-11	11	29	200	33	-23	34	-1	34	-18	34	-14
170	15	9	0	46	52	-43	8	31	201	37	-27	30	6	35	-16	52	-44
171	13	19	2	44	18	15	6	37	202	33	-23	30	6	34	-14	39	-24
172	10	37	2	51	28	0	7	42	203	40	-28	32	9	32	-8	19	17
173	12	18	0	47	35	-22	3	40	204	38	-17	31	19	37	-6	31	25
174	6	29	4	39	38	-25	8	33	205	33	-11	26	27	35	0	36	29
175	20	33	2	62	34	0	13	43	206	40	-15	26	30	30	10	24	33
176	15	30	6	46	39	-18	13	36	207	41	-6	37	20	28	18	34	15
177	4	45	0	54	32	-12	4	47	208	38	,	28	34	26	25	30	20
178	1	58	3	54	102	-94	3	55	209	41	17	17	70	29	41	22	73
179	0	62	2	58	0	0	2	58	210	30	-6	1	67	0	75	20	34
180	7	61	4	63	56	-15	6	60	211	27	3	5	59	2	72	19	31
181	12	38	6	51	33	4	8	44	212	26	22	9	67	8	77	27	44
182	11	45	6	57	29	10	11	44	213	37	-16	16	30	14	35	19	16
183	15	39	7	53	37	-5	14	42	214	35	4	18	32	18	31	15	36
184	11	42	6	52	51	-29	7	48	215	38	-8	18	35	17	35	15	36
185	13	44	6	55	39	.9	4	56	216	38	-3	22	29	21	30	21	28
186	16	45	11	45	52	-34	4	52	217	37	3	24	31	17	45	25	21
187	12	41	14	36	69	-58	13	37	218	38	5	23	38	20	42	30	20
188	10	49	8	53	67	-63	9	49	219	42	0	18	43	18	45	31	12
189	30	34	-1	82	44	-5	19	58	220	35	16	20	41	27	26	27	16
190	18	42	7	55	32	7	10	48	221	39	22	п	63	16	54	24	42
191	10	55	-3	78	55	-29	12	45	222	14	48	9	59	7	66	U	93
192	17	51	15	46	32	1	0	69	223	27	37	9	64	16	56	14	56
193	17	46	22	31	0	0	20	33	224	21	60	-1	94	ιι	73	15	57
194	0	89	-1	84	27	36	8	63	125	12	68	-2	89	10	67	26	38
195	26	-19	25	7	33	-25	35	-18	226	2	97	-9	108	-10	116	-24	127
196	22	-17	30	-7	34	.30	33	-25	<u> </u>	<u> </u>		 	 	<u>_</u> .	<u> </u>	l	

FIG 18C

	I and SI slices			Value	ofcal	bac_tul	it_idc			l an	ısı		Value	of cal	bac_tr	ult_ldc	
ctxldx)	1	l .	:	2	ctridx	stic	es .	•)	1		1	:
	œ	a	m	a	-		CH	В		12M	n	R R	12	m	8	8	n
277	-6	93	-13	106	-21	126	-22	127	308	-16	96	-1	51	-16	77	-10	67
278	-6	84	-16	106	-23	124	-25	127	309	-7	88	7	49	-2	64	}	68
279	89	79	-10	87	-20	110	-25	120	310	-8	85	8	52	2	61	0	77
280	0	66	-21	114	-26	126	-27	127	311	-7	85	9	41	-6	67	2	64
281	-i	71	-18	110	-25	124	-19	114	312	.9	85	6	47	-3	64	0	68
282	0	62	-14	98	-17	105	-23	117	313	-13	88	2	55	2	57	-5	78
283	-2	60	-22	110	-27	121	-25	118	314	4	66	13	41	-3	65	7	55
284	-2	59	-21	106	-27	117	-26	117	315	-3	77	10	44	-3	66	5	59
285	-5	75	-18	103	-17	102	-24	113	316	-3	76	6	50	0	62	2	65
286	-3	62	-21	107	-26	117	-28	118	317	-6	76	5	53	9	51	14	54
287	-4	58	-23	108	-27	116	-31	120	318	10	58	13	49	-1	66	15	44
288	-9	66	-26	112	-33	122	-37	124	319	-l	76	4	63	-2	71	5	60
289	-1	79	-10	96	-10	95	-10	94	320	-1	83	6	64	-2	75	2	70
290	0	71	-12	95	-14	100	-15	102	321	-7	99	-2	69	-L	70	-2	76
291	3	68	-5	91	-8	95	-10	99	322	-14	95	-2	59	-9	72	-18	86
292	10	44	-9	93	-17	111	-13	106	323	2	95	6	70	14	60	12	70
293	-7	62	-22	94	-28	114	-50	127	324	0	76	10	44	16	37	5	64
294	15	36	-5	86	-6	89	-5	92	325	-5	74	9	31	0	47	-12	70
295	14	40	9	67	-2	80	17	57	326	0	70	12	43	18	35	11	55
296	16	27	4	80	4	82	-5	86	327	-11	75	3	53	11	37	5	56
297	12	29	-10	85	-9	85	-13	94	328	1	68	4	34	12	41	0	69
298	1	44	-1	70	-8	81	-12	91	329	0	65	10	38	10	41	2	65
299	20	36	7	60	-1	72	-2	77	330	-14	73	-3	52	2	48	-6	74
300	18	32	9	58	5	64	0	71	331	3	62	13	40	12	41	5	54
301	5	42	5	61	1	67	-1	73	332	4	62	17	32	13	41	7	54
30z	1	48	12	50	9	56	4	64	333	-1	68	7	44	0	59	-6	76
303	10	62	15	50	0	69	-7	81	334	-13	75	7	38	3	50	-11	82
304	17	46	18	49	ι	69	5	64	335	11	55	13	50	19	40	-2	77
305	9	64	17	54	7	69	15	57	336	5	64	10	57	3	66	-2	77
306	-12	104	10 .	41	-7	69	t	67	337	12	70	26	43	18	50	25	42
307	-11	97	7	46	-6	67	0	68	l	l							

FIG 18D

		ind St	T	Valu	e of ca	bac_i	alt_id	c		Τ.,	nd SI	Τ	Val	ue of	cabac_	init ic	lc
ctxIdx	•	lices		0	T	1	T	2	ctridx		lices		•	1		Ī	2
	-				m							m			n	-	п
338	15	6	14	u	19	-6	17	-13	369	32	-26	31	4	40	-37	37	-17
139	6	19	11	14	18	-6	16	-9	370	37	-30	27	6	38	-30	32	1
349	7	16	9	11	14	0	17	-12	371	44	-32	34	8	46	-33	34	15
341	12	14	18	11	26	-12	27	-21	372	34	-18	30	10	42	-30	29	15
342	18	13	21	9	31	-16	37	-30	373	34	-15	24	22	40	-24	24	25
343	13	u	23	-2	33	-25	41	-40	374	40	-15	33	19	49	-29	34	22
344	13	15	32	-15	33	-22	42	41	375	33	-7	22	32	38	-12	31	16
345	15	16	32	-15	37	-28	48	47	376	35	-5	26	31	40	-10	35	18
346	12	23	34	-21	39	-30	39	-32	377	33	0	21	41	38	-3	31	28
347	13	23	39	-23	42	-30	46	-40	378	38	2	26	44	46	-5	33	41
348	15	20	42	-33	47	-42	52	-51	379	33	13	23	47	31	20	36	28
349	14	26	41	-31	45	-36	46	-41	380	23	35	16	65	29	30	27	47
350	14	44	46	-28	49	-34	52	-39	381	13	58	14	71	25	44	21	62
351	17	40	38	-12	41	-17	43	-19	382	29	-3	8	60	12	48	18	31
352	17	47	21	29	32	9	32	11	383	26	0	6	63	11	49	19	26
353	24	17	45	-24	69	-71	61	-55	384	22	30	17	65	26	45 .	36	24
354	21	21	53	-45	63	-63	56	-46	385	31	-7	21	24	22	22	24	23
355	25	22	48	-26	66	-64	62	-50	386	35	-15	23	20	23	22	27	16
356	31	27	65	-43	77	-74	81	-67	387	34	-3	26	23	27	21	24	30
357	22	29	43	-19	54	-39	45	-20	388	34	3	27	32	33	20	31	29
358	19	35	39	-10	52	-35	35	-2	389	36	-1	28	23	26	28	22	41
359	14	50	30	9	41	-10	28	15	390	34	5	28	24	30	24	22	42
360	10	57	18	26	36	0	34	1	391	32	11	23	40	27	34	16	60
361	7	63	20	27	40	-1	39	1	392	35	5	24	32	18	42	15	52
362	-2	77	0	57	30	14	30	17	393	34	12	28	29	25	39	14	60
363	4	82	-14	82	28	26	20	38	394	39	11	23	42	18	50	3	78
364	-3	94	-5	75	23	37	18	45	395	30	. 29	19	57	12	70	-16	123
365	9	69	-19	97	12	55	15	54	396	34	26	22	53	21	54	21	53
366	-12	109	-35	125	11	65	0	79	397	29	39	22	61	14	71	22	56
367	36	-35	27	0	37	-33	36	-16	398	19	66	11	86	11	83	25	61
368	36	-34	28	0	39	-36	37	-14]								

